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TITLE: METHOD FOR EXPANDING AND  
COMPRESSING MUSICAL SOUND  
WAVEFORM SIGNAL IN TIME BASE  
DIRECTION

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ABSTRACT:

PROBLEM TO BE SOLVED: To compress and expand a musical sound waveform signal in the time base direction in a natural form.

SOLUTION: A frequency band separation part 12 converts time-series waveform data presenting time variation of the musical sound waveform signal stored in a waveform data storage part 10 into each frequency band component waveform data of a high frequency band, a middle frequency band, and a low frequency band, and stores them in buffer parts 13a, 13b, 13c, respectively. Time base control parts 14a, 14b, 14c are controlled by a control part 20, and divide each frequency band component waveform data into time frame data of a prescribed time length in each frequency band, and rearrange each time frame data according to an inputted expansion/compression ratio (target tempo/ original tempo) to output them, respectively. A mixer part 15 mixes the rearranged and outputted waveform data and output them.

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